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Presentation Type: Oral

Presentation Title: A Global Assessment of the SRTM Accuracy

Abstract: The NASA/NIMA Shuttle Radar Topography Mission (SRTM) collected interferometric radar data which has been used by JPL to generate a near-global topography data product for latitudes smaller than 60 degrees. As part of the SRTM mission, an extensive ground campaign was conducted by NGA and NASA to collect ground-truth which would allow for the global validation of this unique data set.

The table below summarizes the SRTM performance observed by comparing against the available ground-truth. All quantities represent 90% errors in meters.

Continent	Africa	Australia	Eurasia	Islands	N. America	S. America	
Horizontal Accuracy	11.9	7.2	8.8	9.0	12.6	9.0	
Absolute Vertical	5.6	6.0	6.2	8.0	9.0	6.2	
Relative Vertical	9.8	4.7	8.7	6.2	7.0	5.5	
Long Wavelength	3.1	6.0	2.6	3.7	4.0	4.9	

This talk presents a detailed description of how the results in this table were obtained. It also presents detailed characterization of the different components of the error, their magnitudes, and spatial structure.